







## MinCa 5.1 PK

### Compact transport solution for personnel and special use

-  **Spacious ROPS / FOPS-tested** driver's cab
-  **Robust and fully** spring-loaded chassis
-  **Optimal accessibility** to hydraulics, electrical equipment, and the electric motor
-  **Display for analyzing important vehicle data** and showing all error messages

## Technical data

4055-00-120 – Rev.06

### MAIN FEATURE OF THE MACHINE:

Compact passenger transporter for use in underground mining

Cabin for 5 persons

### OPERATION CONDITIONS

Operation temperature  
\*note cold start limit temperature of the diesel engine -20 °C \*up to +40 °C

Permissible longitudinal gradient max. 35 %

Operating altitude above sea level < 1,500 m

### CHASSIS

Self-supporting chassis

Suspended axles, steering axle at the front

Axle attachment via trailing and transverse arms

Vehicle suspension via coil springs with shock absorber at the front and rear axle

Opening of the hood via hinges and gas dampers

Laterally protective strips and a stable underbody

Towing eyes and fenders front and rear

Transport eyelets for assembly and shaft transport

### WEIGHTS AND PERMITTED AXLE LOADS

Total operating weight  
(\*depending on selected options) 4,200 kg\*

Payload 1,200 kg

Front axle load, loaded 2,000 kg

Rear axle load, loaded 3,400 kg

### ENGINE

**Diesel engine**  
**Manufacturer / Type** **Deutz TD 2.9**

Exhaust stage EU stage 3B / EPA Tier 4F

Power 55 kW at 2,300 rpm

Exhaust after treatment DOC

Generator / Starter 14 V, 95 A / 12 V, 2.6 kW

Cooling system Liquid cooled

Cold start limit temperature -15 °C

Fuel prefilter and fuel fine filter with water separator

Automatic shut off in case of exceeding engine specific parameters

Information display with engine hour counter

Dry air filter with pre-filter

### FUEL SYSTEM

Fuel tank capacity 75 l

Electric level indicator

### AXLES

Manufacture Dana

Type front axle 211

Rear axle type 111

Differential Front Axle / rear axle: open/ 100%

### STEERING

Hydraulic front axle steering with a constant cylinder on the front axle

Steering wheel steering

Emergency steering

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### DRIVE LINE

Hydrostatic drive line

Reversible under load

All wheel drive

Manufacturer Danfoss

Type H1

Driving:

- 1<sup>st</sup> gear 10 km/h
- 2<sup>nd</sup> gear 30 km/h

Pulling force /

Gradeability (loaded):

- Maximal 23 kN / 51 %
- 1<sup>st</sup> gear 10 kN / 19 %
- 2<sup>nd</sup> gear 3 kN / 3 %

### SERVICE BRAKE

Hydraulic service brake as two-circuit pump-storage brake system

Oil-immersed multiple-disc brakes

### PARKING BRAKE SYSTEM

Spring-applied, hydraulically released parking brake

SAHR – brake

### AUXILIARY BRAKE

One circuit of the service brake acts as auxiliary brake

### TIRES

Single tired, air filled.

Tire size: 8.25x15

### HYDRAULIC SYSTEM

Tank capacity 55 l

Inspection glasses for Min/Max indication

Temperature sensor

Electric level indicator, control of minimum level

All fittings in DIN type

### ELECTRIC SYSTEM

Operating voltage 12 V

Battery 1x 12 V, 95 Ah

Battery main switch

Emergency stop button, 1x in the drivers canopy, 1x outside

Reverse signal

In case of driver absence occurs automatically:

- Switching the traction drive in neutral gear
- Activation of the parking brake

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### LIGHTING

2 main head lights front with low and high beam, parking light and direction indicator

2 Rear lights with reversing light, braking light, reverse driving light and direction indicator

2 working head lights at the rear

1 flashlight yellow

### FINISH

Canopy/ Chassis RAL 1007

Drive components RAL 9005

### LOADING PLATTFORM

Loading platform with flat floor and sidewalls, laterally fixed, rear foldable

### DRIVER'S CABIN WITH PASSENGER CABIN

Open drivers cabin

- ROPS/FOPS certification
- 2 single seats at the front
- 1 bench for 3 people at the rear
- Entrance from both side through 4 half doors
- Front windscreen
- Wipers and washing plant for the windscreens
- Blower for front windshields
- All displays and instruments clearly arranged in the instrument panel
- 2 side mirrors, document box
- All switches and controls are located within the reach of the operator

Driver's seat

- With lap belt
- Synthetic leather cover
- Adjustment of back rest and seat

## Accessories

### ACCESSORIES AND EQUIPMENT

1 Hand-held fire extinguisher Total PK 10 / BuT 10

2 Portable wheel chocks

1 Tool kit with bag

1 Safety helmet and ear protection

1 Triangular safety reflector

1 First-aid kit

### DOCUMENTATION

2 operating instructions, 1 in printed form in the document box on the vehicle

Spare part list in electronic form



## Accessories (options)

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### DRIVER'S COMPARTMENT WITH PERSON'S CABIN

Closed

Front doors with sliding windows

Heating system

Air conditioning

Three-point belts for driver's and Co-Driver's seat

Two-point belts for seats in rear

### BRACKET WITH SCOOP STRETCHER

For the emergency transport of an injured person

Folding rail system across rear seat

For inserting the scoop stretcher above the rear half-doors of the open driver's cab

### LIGHTING

Vehicle lighting with LED lamps

### SCREWING'S

Screwing's in JIC type

### FIRE EXTINGUISHING SYSTEM

Fire extinguishing system with manual release

Fire extinguishing system with automatic release

### DRIVE LINE

**Diesel engine** DEUTZ / D 914

**Manufacturer / Type**

Exhaust stage EU stage 3A / EPA Tier 3

Power 58 kW at 2,300 rpm

Cooling system air cooled

**Diesel engine,** DEUTZ / TCD 3.6 L4

**Manufacturer / Type**

Exhaust stage EU stage 3B / EPA Tier 4I

Power 80 kW at 2,200 rpm

Exhaust after treatment DOC, DPF

Further equipment and options on request

## Accessories (options)

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### OTHER OPTIONEN

Rear view camera system

1 hand-held fire extinguisher made from ANSUL

Extended tool kit

Spare tire

Electric winch, mounted on the front bumper

Service packages for 2.000 operating hours

Service packages for 3.000 operating hours

## Safety

All machines are designed and manufactured in accordance with the latest safety standards, including the currently valid European Machinery Directive and the ISO standard for mobile machines for use underground mining. This means that even the basic version of the machines provides a high level of safety for the operator, which can be supplemented as required with additional optional safety equipment.

The standard equipment includes the following safety features:

- ROPS/FOPS canopy(s)
- Safety braking system („fail-safe“)
- Emergency stop button
- 3-point safety entrances
- etc.

Further equipment and options on request

## Service

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### CUSTOMER SERVICE

Repairs and maintenance work are central points in customer service. Here, Paus is broadly positioned and offers its customers and dealers worldwide an extensive service program. Thus, trained employees are available under our service hotline as well as competent contact persons at our dealers on site.

### PAUS CONNECT

Cloud, which captures and displays all data, messages and location

location information is captured and visualized.

Your advantages:

- Faster service
- Life cycle cost management

*More information on page 5*

### SPARE PARTS

We attach great importance to a high availability of Paus spare parts. In addition to maintenance and service parts, which are available at any time, customers and dealers have the possibility to obtain spare parts for engines, axles, gearboxes, etc. easily and quickly through us. Benefit from our online catalog with elaborated spare parts lists.



## Dimension

### Dimension

Lenght	4,130 mm
Wide	2,060 mm
Height	approx. 1950 mm

### TURNING RADIUS

Outside	5,790 mm
Inside	3,030 mm

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